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ABSTRACT

The chapters of this collection serve as a guide to teachers of mathematics in the United Kingdom at the undergraduate and postgraduate levels. Chapters of part A, "Issues in Learning and Teaching," are: (1) "The Transition to Higher Education" (John Appleby and William Cox); (2) "The Genesis of Mathematical Structures" (Robert Burn); (3) "Developing Active Learners" (Afzal Ahmed, Derek Holton, and Honor Williams); (4) "Assessment in Mathematics" (Clifford Beevers and Jane Paterson); (5) "The Use of Computer Algebra Systems" (David Poutney, Carl Leinbach, and Terence Etchells); (6) "Developing Transferable Skills: Preparation for Employment" (Neil Challis, Harry Gretton, Ken Houston, and Neville Neill); (7) "Designing Courses with a Sense of Purpose" (Peter Kahn); (8) "Enhancing the Total Learning Environment for Students" (Peter Petocz and Anna Reid); and (9) "Reflection in and on Practice" (John Mason). Part B, "Learning and Teaching in Context," contains: (10) "Numeracy in Higher Education" (Janet Duffin); (11) "Mathematics: The Teaching, Learning, and Support of Non-specialists" (Tony Croft); (12) "Mathematical Modeling Skills" (Stephen Hibberd); (13) "Ideas for Improving Learning and Teaching of Statistics" (Neville Davies); (14) "Proof and Reasoning" (Joseph Kyle); and (15) "Making Learning and Teaching More Effective" (Peter Kahn and Joseph Kyle). An appendix contains a guide to mathematics resources on the Internet. Each chapter contains references. (SLD)

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